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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/027,338	Applicant(s) TURBA, THOMAS N.	
	Examiner Yicun Wu	Art Unit 2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2165

III. DETAILED ACTION

1. Claims 1-25 are presented for examination.

Claim Objections

2. Claims 23-25 are objected to because of the following informalities:

"further comprising".

For purpose of examination, claim 23 is considered to depend on claim 22. Appropriate correction is required.

Response to Applicant' Remarks

3. Applicant argues:

(1) "the claimed user terminal communicates only in XML...
The user interface of Walsh is not in XML...from a user
terminal"

(2) "Walsh ... does not generate a document in XML"

(3) "Walsh ... does not ... "XML Mapping tree"

Examiner disagree.

With respect to the 1st argument, Applicant did not explicitly claim "user terminal communicates only in XML". Does applicant meant to say the user interface of current application

Art Unit: 2165

is only in XML from a user terminal"? How is user interface and user terminal defined? Further clarification is required.

The Examiner consider XML doc. Fig. 1b, item 106, 126, XML document. Col. 9, lines 38-44 and XML format. Col. 4, lines 17-21, clearly shows the user interface of Walsh is XML.

With respect to the 2nd argument, the Examiner consider XML document, col. 9, lines 38-45 and fig. 1b clearly shows Walsh ... does generate a document in XML as claimed.

With respect to the 3rd argument, the Examiner consider XML mapping. Col. 9, lines 51-67 reads on applicant's claimed XML mapping tree.

Art Unit: 2165

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated over Walsh et al. (U. S. Patent No. 6,810,429).

As to Claim 1, Walsh et al. discloses a data processing system comprising:

a. a user terminal (i.e. front-end interface 120 and fig. 1b)

b. a data base management System having a data base in a format incompatible with XML (i.e. legacy data sources. Col. 4, lines 1-5 and fig. 1b) which accesses the data base (fig. 1b) in accordance with an ordered sequence of command language script

Art Unit: 2165

(i.e. XML format. Col. 4, lines 17-21) coupled to the user terminal (i.e. front-end interface 120 Col. 4, lines 17-21 and fig. 1b) via a publicly accessible digital data communication network (i.e. Internet. Col. 7, lines 14-15),

c. a document containing a plurality of elements formatted in XML (extended markup language) (i.e. XML doc. Fig. 1b, item 106, 126) generated by the user terminal transferred via the digital data communication network to the data base management system (Fig. 1b);

d. a document type definition (DTD) which defines the format of the document (i.e. DTD. Col. 9, lines 51-67) transferred from the user terminal to the data base management system via the publicly accessible digital communication network (Fig. 1b); and

e. an XML mapping tree (i.e. XML mapping. Col. 9, lines 51-67) defined by the DTD (i.e. DTD. Col. 9, lines 51-67) into which each of the plurality of elements mapped for use by the data base management system for entry into the data base (fig 1b and DTD. Col. 9, lines 51-67).

As to Claim 2, Walsh et al. discloses a data processing system wherein

Art Unit: 2165

at least one of the plurality of elements further comprises an attribute which is recorded within the XML mapping tree (col. 10, lines 55-67).

As to claim 3, Walsh et al. discloses a data processing system wherein

the DTD is transferred from the user terminal to the data base management system via the publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 4, Walsh et al. discloses a data processing system further comprising a storage space in which the DTD is stored for future use (fig. 1b).

As to claim 5, Walsh et al. discloses a data processing system wherein the DTD location path is displayed on the user terminal as a window (fig. 1b).

As to claim 6, Walsh et al. discloses teaches an apparatus comprising:

a. a user terminal which generates an XML document (fig. 1b);

b. a Document Type Definition (DTD) which defines the format of the XML document (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 51- 67);

c. a publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67);

d. a data base management system which honors a service request by executing an ordered sequence of command language statements having an input format different from XML responsively coupled to the user terminal via the publicly accessible digital (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67) which receives the XML document and the Document Type Definition via the publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67); and

e. an XML mapping tree responsively coupled to the data base management system which parses the XML document in accordance with the DTD into the input format of the data base management system (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 7, Walsh et al. discloses an apparatus comprising:

Art Unit: 2165

wherein an internal representation of the XML element tree corresponding to the DTD is stored for future use (fig. 1b).

As to claim 8, Walsh et al. discloses an apparatus comprising:

wherein the XML document further comprises a plurality of elements and at least one of the plurality of elements has an attribute (col. 10, lines 55-67).

As to claim 9, Walsh et al. discloses an apparatus comprising:

wherein an internal representation of the XML element tree corresponding to the DTD is received by the data base management system via the publicly accessible digital data network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 10, Walsh et al. discloses an apparatus comprising:

wherein the publicly accessible digital data communication system further comprises the Internet (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

Art Unit: 2165

As to claim 11, Walsh et al. discloses a method of interfacing an XML document to a data base management system having an incompatible input protocol comprising:

a. transferring the XML document and a Document Type Definition to the data base management system via a publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67);

b. parsing the XML document into an XML mapping tree in accordance with the Document Type Definition (DTD) corresponding to the XML document (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- 67) and

c. presenting the parsed XML document to the data base management system for processing (Walsh et al. fig. 1b, 2, 4).

As to claim 12, Walsh et al. discloses a method further comprising the step of saving the internal representation of the XML element tree corresponding to the DTD for future use (Walsh et al. fig. 1b).

As to claim 13, Cheng et al. as modified teaches a method further comprising wherein the internal representation of the XML element tree corresponding to the DTD is retrieved from storage (Walsh et al. fig. 1b, 2, 4).

As to claim 14, Walsh et al. discloses a method wherein the XML document further comprises a plurality 2 of elements and at least one element has an attribute (col. 10, lines 55-67).

As to claim 15, Cheng et al. as modified teaches a method wherein the publicly accessible digital data communication network further comprises the Internet (Walsh et al. fig. 1a, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 16, Walsh et al. discloses an apparatus comprising:

- a. transmitting means for transmitting an XML document (fig. 1b);
- b. stating means for stating a DTD associated with the document col. 9, lines 57- 67) and transmitting the DTD associated with the document via the transmitting means (fig. 1b, 2);
- c. providing means responsively coupled to the transmitting means (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- 67) for providing data base management functions; and
- d. composing means responsively coupled to the providing means for composing the XML document from an XML mapping tree

Art Unit: 2165

and data in the data base management system based upon the DTD fig. 1b, 2, 4 and col. 9, lines 57- 67).

As to claim 17, Walsh et al. discloses an apparatus wherein the composing means further comprises means for storing the parsed XML document for future use (fig. 1b, 2, 4 and col. 9, lines 57- 67).

As to claim 18, Cheng et al. as modified teaches an apparatus wherein the XML document further comprises a plurality of elements and at least one of the plurality of elements has an attribute (col. 10, lines 55-67).

As to claim 19, Walsh et al. discloses an apparatus wherein the transmitting means further comprises the Internet (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 20, Walsh et al. discloses an apparatus further comprises displaying means for displaying a pathway for the DTD storage location (Walsh et al. fig. 1b, 2, 4).

As to claim 21, Walsh et al. discloses an apparatus for storing an XML document in a data base having a legacy format

Art Unit: 2165

not compatible with XML (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67) comprising:

a. A user terminal which generates the XML document (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67);

b. a Document Type Definition (DTD) which defines the format of the XML document (fig. 1b, and col. 9, lines 57- 67);

c. A legacy data base management system having a data base in the legacy format which receives the XML document from the user terminal responsively coupled to the user terminal via a publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67); and

d. an XML mapping tree responsively coupled to the data base management system which parses the XML document in accordance with the DTD into the legacy format of the data base (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 22, Walsh et al. discloses an apparatus for storing an XML document wherein the user terminal transfers the Document Type Definition (DTD) to the legacy data base management system via the publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

Art Unit: 2165

As to claim 23, Walsh et al. discloses an apparatus comprising

a repository within the legacy data base management system for storing the XML mapping tree (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 24, Walsh et al. discloses an apparatus comprising

a window for display of the DTD on the user terminal (Walsh et al. fig. 1a, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 25, Walsh et al. discloses an apparatus

wherein the publicly accessible digital data communication system further comprises the Internet (Walsh et al. fig. 1b, 2, 4).

Conclusion

6. THIS ACTION IS MADE FINAL, Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory- period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136 (a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply-expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2165

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yicun Wu whose telephone number is 571-272-4087. The examiner can normally be reached on 8:00 am to 4:30 pm, Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571-272-4146. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Yicun Wu
Patent Examiner
Technology Center 2100

March 28, 2006


JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100